

ABSTRACT OF THE DISCLOSURE

Tin is added to a zinc cathode target to enhance the sputter efficiency of the target. Films deposited using the cathode, e.g., greater than zero but less than 10 weight percent tin and greater than 90 but less than 100 weight percent zinc improve the ~~mechanical~~ ^{chemical} durability of a high transmittance, low emissivity coating stack over coating stacks having zinc oxides without tin oxide. High transmittance, low emissivity coating stacks are heated with the heated coating having reduced haze by selecting the thickness of metal primer layer between an infrared reflective film, e.g. a silver film and a dielectric film, e.g., a 52-48 zinc stannate, zinc oxide, tin oxide film or a zinc oxide film. Also disclosed are enhancing films that lower the resistivity of silver films deposited thereon and improve chemical durability of the coating stack.

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